

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-04-23 13:27:02

Date of Next Testing: 2027-04-22 13:27:02

Product Name: **p-Nitrophenyl- β -D-Galactopyranoside**

CAS Number: 3150-24-1

Specifications & Purity: $\geq 99\%$

Lot #: D2318936

SKU #: **N100371**

Version: **0**

Analysis #: **189729**

Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Specific Rotation $[\alpha]_{20/D(c=1 \text{ in H}_2\text{O})}$	-87--80 (°)	-80.10600 °
Water by Karl Fischer	0-11 (%)	0.23650 %
Purity(HPLC)	99-100 (%)	99.90400 %
Melting point	179-183 (°C)	182.62000 °C
Free P-Nitrophenol	0-0.1 (%)	0.05300 %
Appearance (N100371)	White to Yellow to Green Powder, Crystals or Chunks	White to Yellow to Green Powder, Crystals or Chunks
Solubility in H ₂ O , Colorless to Faint Green, Clear, 10mg/ml	pass	Pass
beta-Galactosidase detection test	to pass test	to pass test
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager